



NSA & CNSS Certified

IT Security Training

for IT and IA Professionals, and System End-Users

A cost-effective, interactive, web-based learning solution ...

IT Security - State of the Industry

Evolving Threat and What's at Risk

- **Vulnerabilities and incidents are rising exponentially**
- **Dramatic increases in computer interconnectivity**
- **Information Privacy / Confidentiality**
- **Provision of Services / Availability**
- **Critical Roles and Missions**
- **National Infrastructure**
- **Data Manipulation / Integrity**

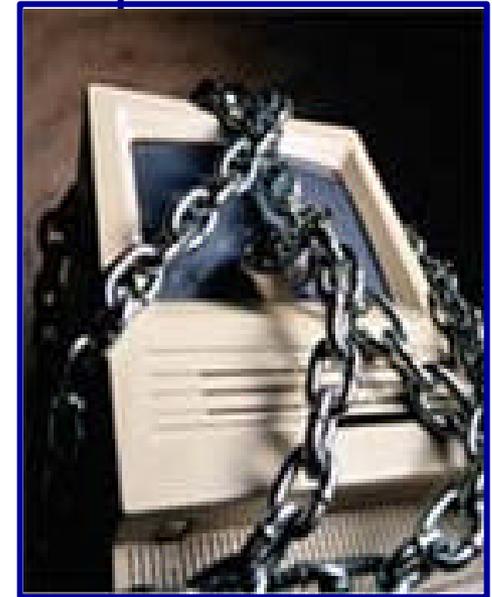


IT Security - State of the Industry

Alarming Statistics

- In the past 5 years, intrusions have risen 50%
- 85% of reported virus attacks resulting in significant financial loss
- 74% cited the Internet as a frequent point of attack
- 33% cited internal systems
- 38% have suffered unauthorized access and/ or misuse of their websites
- 70% of those attacked were vandalized

Source: CIO Information Week, May 1, 2002



IT Security - State of the Industry

Security Training in Federal Mandates

Computer Security Act of 1987

- ✓ Requires training for management and use of Federal computer systems

Office of Management and Budget Cir A-130, App III

- ✓ Ensure all individuals are appropriately trained in how to fulfill their security responsibilities

Government Information Security Reform Act (GISRA)

- ✓ Include in Agency performance plan a description Agency-wide security program, and budget, staffing, and training resources which are necessary to implement this security program

Federal Information Security Management Act of 2002 (Title III of E-Gov) (FISMA)

- ✓ OMB oversight of Agency IT security practices and Agency accountability



IT Security - Training

Available Training Venues

Instructor-Led Training (ILT)

- ✓ Hi-quality, interactive experience
- ✓ Costly, therefore limited for agency-wide training

Computer-Based CD-ROM Training

- ✓ Lower cost
- ✓ Instructor interaction non-existent
- ✓ Static training

Web-Based Training

- ✓ Can be anywhere, anytime, any place
- ✓ Dynamic interactive training is possible
- ✓ On-line support may be available
- ✓ Cost effective



IT Security - Training Drivers

What Federal Agencies Are “Saying”

***“Consistent with
NIST SP 800-16”***

***“Aligned with federal
mandates!”***

***“Learn anytime,
anywhere (24/7)!”***

***“Easy to administer
agency-wide”***



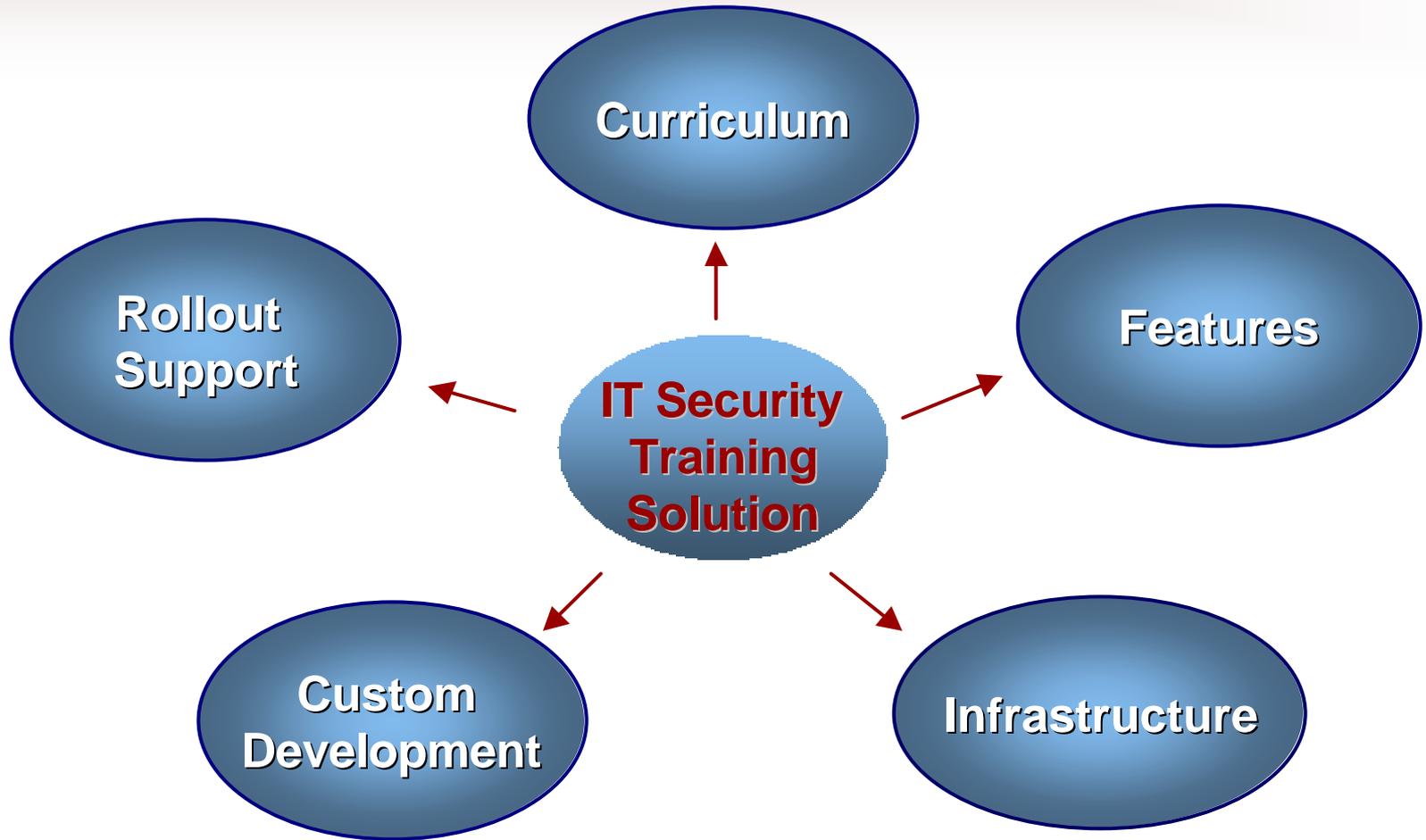
***“To measure and
report on progress”***

***“Training specific to
individual roles and
responsibilities”***

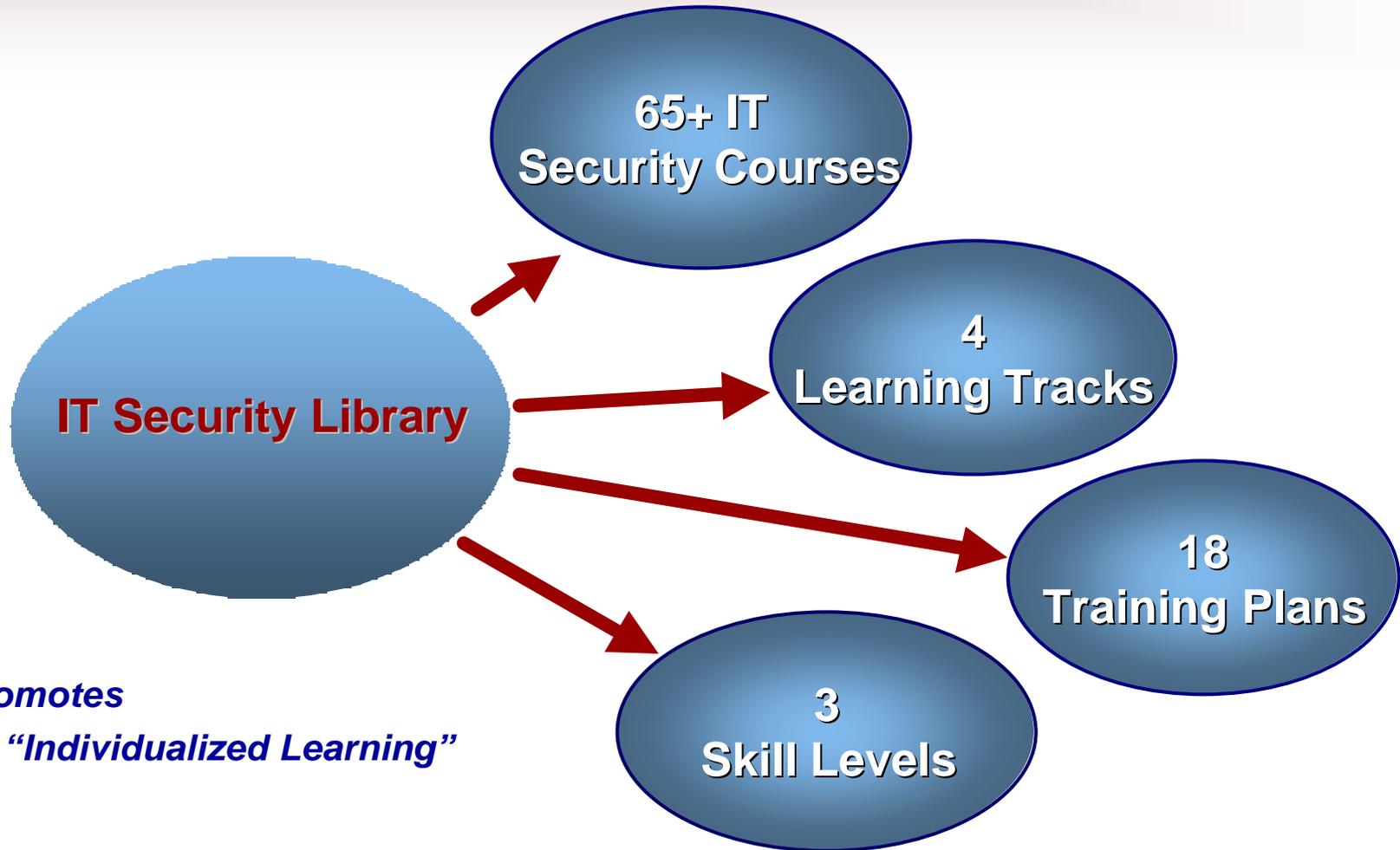
***“Need for a impact
solution!”***

***“Cost effective training
solution“***

The IT Security Training Solution



The IT Security Training Solution



Promotes

"Individualized Learning"

IT Security Training Solution - Curriculum

Based on NIST Special Publication 800-16

NIST SP 800-16 IT Security Training Matrix

Table 1. NIST SP 800-16 IT Security Training Matrix

Training Areas	FUNCTIONAL SPECIALTIES						
	A	B	C	D	E	F	G
	Manage	Acquire	Design & Develop	Implement & Operate	Review & Evaluate	Use	Other
1 Laws & Regulations	1A	1B	1C	1D	1E	1F	
2 Security Program							
2.1 Planning	2.1A	2.1B	2.1C	2.1D	2.1E		
2.2 Management	2.2A	2.2B	2.2C	2.2D	2.2E		
3 System Life Cycle Security							
3.1 Initiation	3.1A	3.1B	3.1C		3.1E	3.1F	
3.2 Development	3.2A	3.2B	3.2C	3.2D	3.2E	3.2F	
3.3 Test & Evaluation			3.3C	3.3D	3.3E	3.3F	
3.4 Implementation	3.4A	3.4B	3.4C	3.4D	3.4E	3.5F	
3.5 Operations	3.5A	3.5B	3.5C	3.5D	3.5E	3.5F	
3.6 Termination	3.6A			3.6D	3.6E		
4 Other							

These areas of the matrix are available for future modifications

... as seen in the ITSL Course Catalog

Job Function – Training Cross References

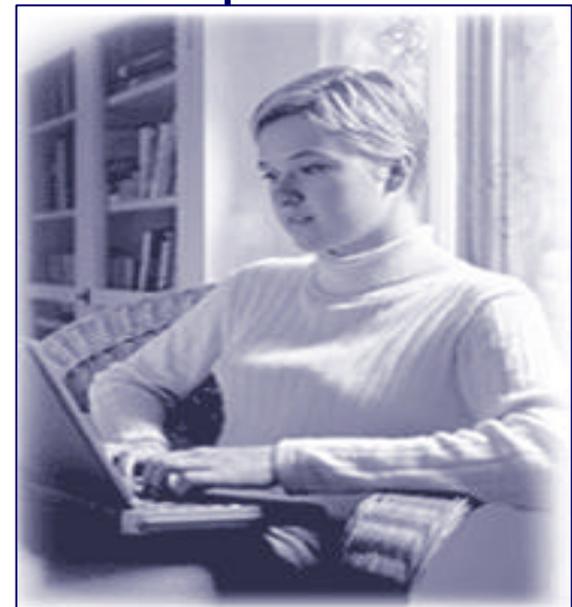
IT Security Officer/Manager		
All cells in the matrix apply		
Database Administrator		
	3.2D	
	3.3D	
	3.4C	
	3.4D	
	3.5D	
	3.6A	
	3.6D	
Programmer/System Analyst		
1C	3.2C	
1D	3.3C	
	3.3D	
	3.4C	
	3.5C	
	3.6D	
Systems Designer/Developer		
1C	3.1A	3.4C
	3.1B	3.5C
	3.1C	
	3.2A	
	3.2C	
	3.3D	
	3.3C	

IT Security Training Solution - Curriculum

Predetermined Integrated Training Plans

Examples of some of the Training Plans are:

- Information Security Officer
- IT Program Manager
- Network and System Administrators
- Database Administrator
- Program and Systems Analysts
- System Owner
- System Design Developer
- Information Resource Manager
- End Users
- Designated Approving Authority



IT Security Training Solution – Certifications

CNSS & NSA Certification

The Karta IT Security Training curriculum received NSA and CNSS Certification by meeting national standards for NSTISSI No. 4013 through 2006!



IT Security Training Solution – Certifications

Continuing Professional Education Credits (CPE)

Individuals holding Certified Information Systems Security Professional (CISSP) or System Security Certified Practitioner (SSCP) can earn CPE credit for each hour of education accomplished in Karta's IT Security Library from (ISC)²



International Standard
for Information Security

IT Security Training Solution

Features / Infrastructure

Browser Playable; No Plug-ins; Minimal Bandwidth Requirements	=	User friendly; technical challenge avoidance
Electronic Registration and Reporting	=	Simplified accessibility and tracking
Pre and Post Assessments	=	Individualized learning
Embedded Questions and Exercises	=	Reinforced learning
Courseware Mentoring – Online SME 24/7 (Optional)	=	Interactive support
Help Desk	=	User Acceptance
Hosting	=	Accessibility

“A Turn Key Solution”

IT Security Training Solution

Custom Development and Rollout Support

- Custom courses can increase the utilization of the entire IT Security Library = **“User Buy-in”**
- Custom courses satisfy the need to train on agency-specific security policies and procedures = **Customer Ownership**
- Marketing Support and Program Development = **Outreach and Communications**

IT Security Training Solution – Benefits Summary

- Based on federal guidelines and mapped to NIST SP 800-16 in order to create integrated training plans
- Meet requirements set forth by the Federal mandates – use solution as part of your FISMA response
- Curriculum is recognized by professional security groups such as: NSA/CNSS and (ISC)²
- Comprehensive program with rollout support and custom course development services available to ensure the greatest ROI
- Based on the needs heard from the Government Security Professionals
- Cost effective and standardized



IT Security Training Solution – Current Customers

Federal Agency Customers

- ⇒ Department of Education
- ⇒ Department of Labor (OSHA)
- ⇒ FDIC
- ⇒ FAA
- ⇒ NASA
- ⇒ Library of Congress
- ⇒ Veterans Affairs
- ⇒ Executive Office of the President (EOP)
- ⇒ USAID
- ⇒ NIST
- ⇒ EPA
- ⇒ Department of Interior
- ⇒ USDA
- ⇒ Florida State
- ⇒ US Secret Service



Karta Contact

Sonny Kakar
VP, Capitol Area Operations
Karta Technologies, Inc.
703.469.2282
202.549.8184 (cell)
skakar@karta.com

George Soltys
Manager, IT Security Training
Karta Technologies, Inc.
703.469.2080
703.309.3038 (cell)
gsoltys@karta.com

